

Retrieval system	Model	Train	2AIRC		AfriCLIRMatrix	
			Index	Retrieve	Index	Retrieve
ColBERT	colbertv2.0	00:22	05:51	00:12	04:20	00:25
	bert-medium	00:16	04:09	00:10	02:24	00:48
	rbert-medium	00:16	03:57	00:07	02:26	00:33
	rbert-base	00:35	06:24	00:31	05:24	01:06
SPLADE	cocondenser-ensembledistil	00:08	—	02:28	—	01:28
	bert-medium	00:05	—	01:12	—	00:41
	rbert-medium	00:05	—	01:30	—	00:48
	rbert-base	00:08	—	03:52	—	01:50
Lemur 5.21	BM25 $\square$	—	00:13	00:40	00:07	00:56

**Table 1: Execution times for each retrieval models (mm:ss) first rows are for ColBERTv2 with the various BERT/ColBERT models; last row is Lemur Indri;**

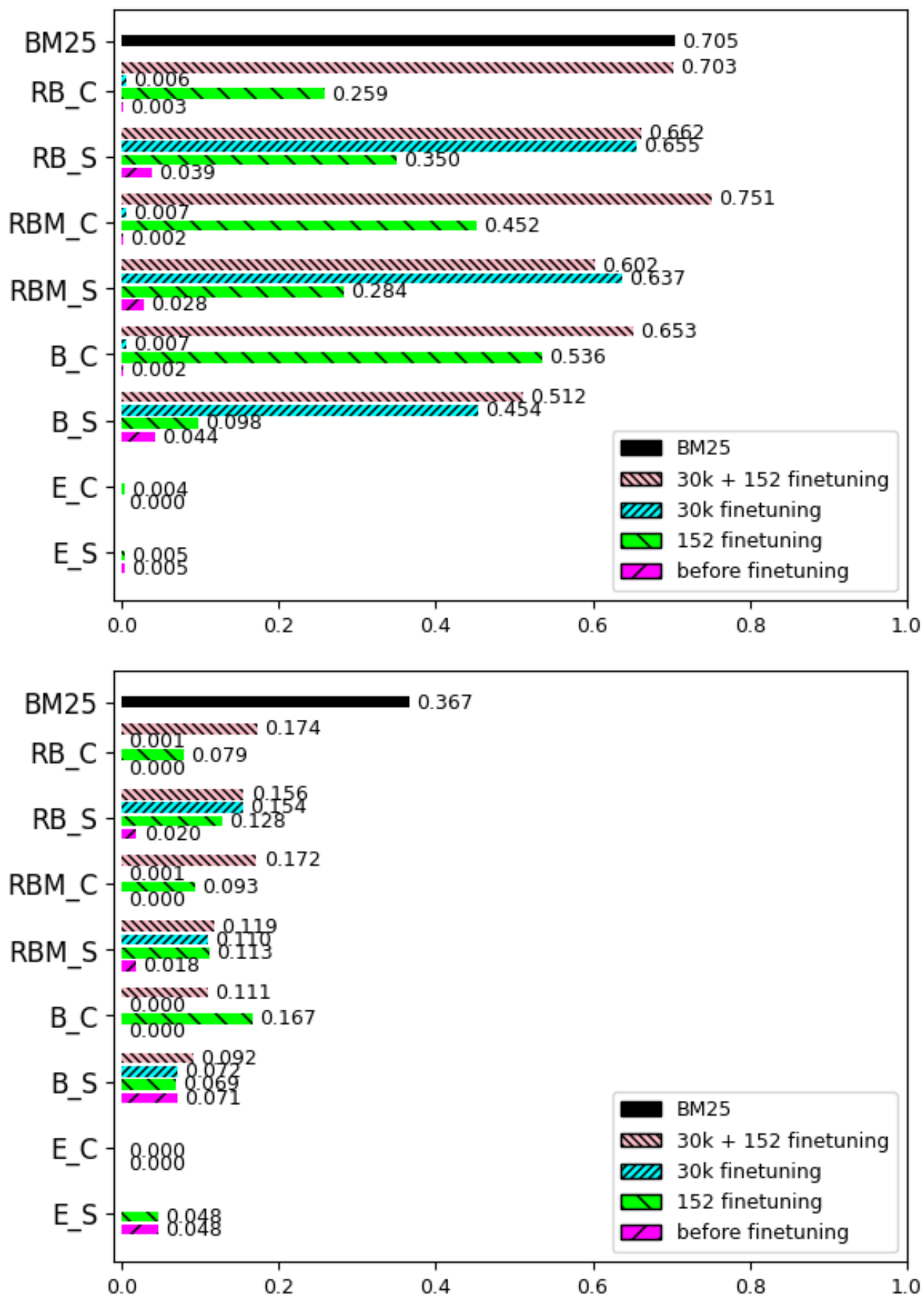


Figure 1: NDCG@10 on the 2AIRC collection. B\_ corresponds to BERT, RB\_ to RoBERTa Base models (768), and RBM\_ to RoBERTa Medium (512) models, where . is C when used with ColBERTv2 and S with SPLADE